

## ABSTRACT

The portable ventilator of the present invention provide a hands-free ventilatory support device in critical care, emergency and resource limited environments. The portable ventilator utilizes ambient air and includes a two dual head compressor system to provide a consistent air supply to the patient. The ventilator device is battery operated and is capable of providing up to 60 minutes of care. In a preferred embodiment, the portable ventilator of the present invention also includes a pneumatic subsystem, a control subsystem, a power subsystem and an alarm subsystem. The portable ventilator of the preferred embodiment includes a dual head and single head compressor system that operates alternatively, to provide a consistent and continuous inhalation and exhalation cycle.